



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY, FLORIDA
PRODUCT CONTROL SECTION

11805 S.W. 26 Street, Room 208
T (786) 315-2590, F (786) 315-2599

www.miamidade.gov/economy

F & L Aluminum Parts, Inc.
1720 N.W. 22nd Court, Unit #3
Pompano Beach, Florida 33069

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Aluminum Stands for Rooftop Equipment

APPROVAL DOCUMENT: Drawing No. FNL.13001, titled "Aluminum Stands for Rooftop Equipment (Round Posts)", sheets 1 through 3 of 3, prepared by Milton Cubas, P.E., Inc., dated February 19, 2015, signed and sealed by Milton Cubas, P.E., on February 19, 2015, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/ or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 13-0321.06 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jorge M. Plasencia, P. E.**



Handwritten signature and date: 3/8/14

NOA No. 15-0205.01

Expiration Date: May 15, 2019

Approval Date: March 17, 2016

Page 1

F & L Aluminum Parts, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. FNL.13001, titled "Aluminum Stands for Rooftop Equipment (Round Posts) ", sheets 1 through 3 of 3, prepared by Milton Cubas, P.E., Inc., dated 02/19/15, signed and sealed by Milton Cubas, P.E., on 02/19/15.

B. TESTS

1. None.

C. CALCULATIONS

1. Structural analysis and calculations, complying with FBC-2014, 5th edition, submitted dated 02/19/15, sheets 1 through 38 of 38, prepared, signed, sealed, and dated 02/19/15 by Milton Cubas, P. E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS


1. None.

F. STATEMENTS

1. Statement letter of conformance complying with FBC-2014, dated 02/19/15, issued, signed and sealed by Milton Cubas, P. E.

G. OTHERS

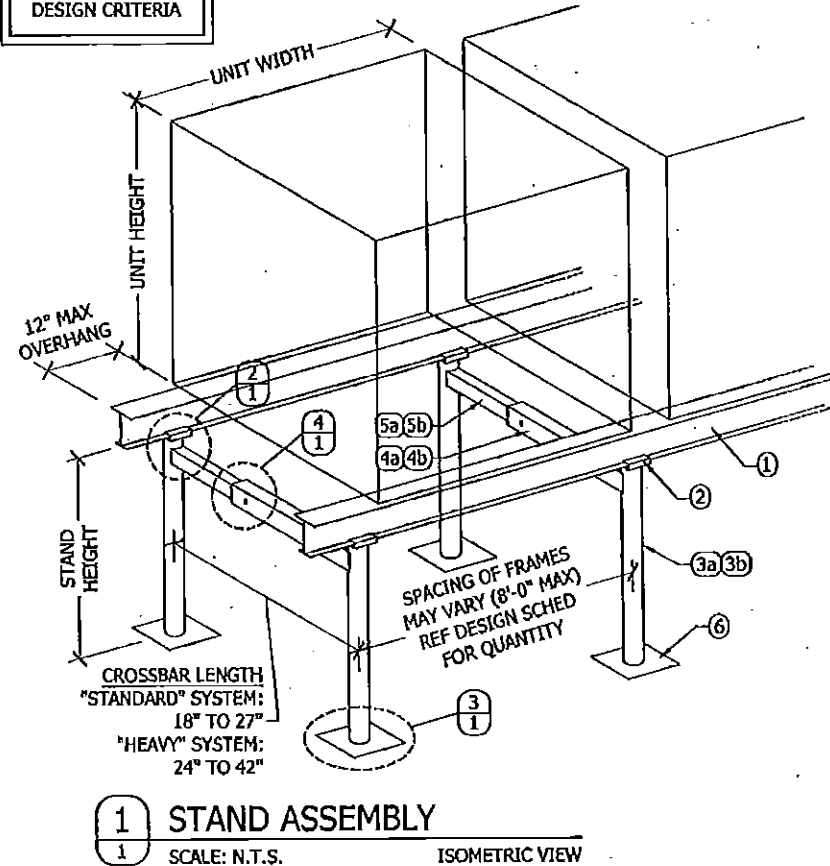
1. Notice of Acceptance No. 13-0321.06, issued to F & L Aluminum Parts, Inc., for their "Aluminum Stands for Rooftop Equipment.", approved on 05/15/14 and expiring on 05/15/19.


Jorge M. Plasencia, P. E.
Product Control Unit Supervisor
NOA No. 15-0205.01
Expiration Date: May 15, 2019
Approval Date: March 17, 2019

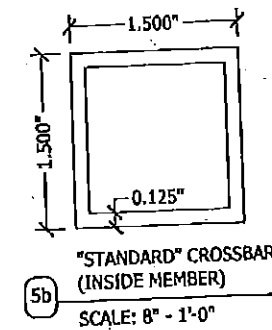
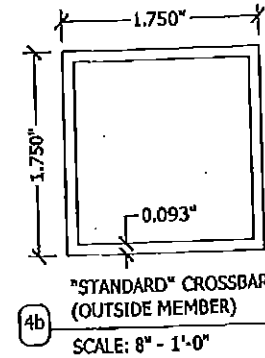
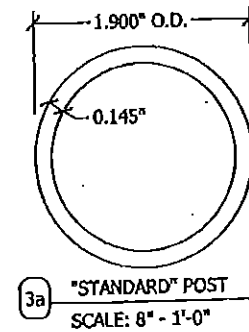
ALUMINUM ROOFTOP EQUIPMENT STAND

WITH ROUND POSTS & TELESCOPIC CROSSBAR

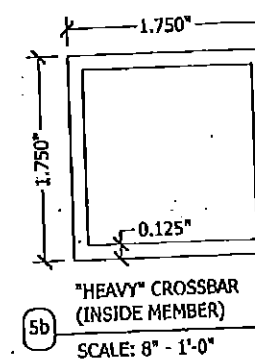
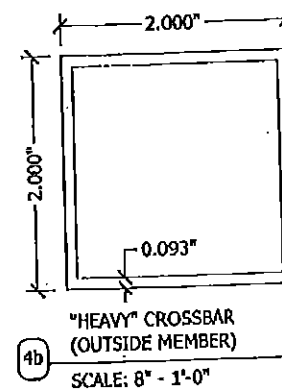
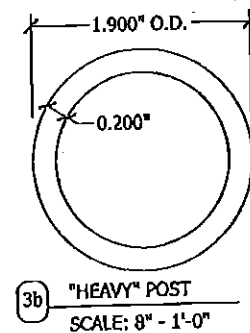
REFER TO DESIGN
SCHEDULE FOR
ALLOWABLE WIND
LOADS AND OTHER
DESIGN CRITERIA



"STANDARD" SYSTEM



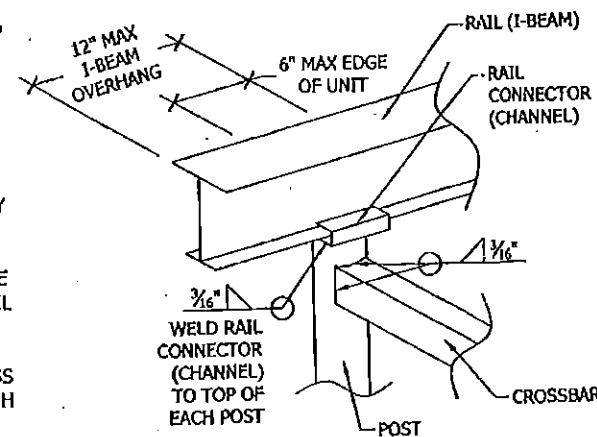
"HEAVY" SYSTEM



GENERAL NOTES

- THIS SYSTEM HAS BEEN EVALUATED IN ACCORDANCE WITH THE 2014 FLORIDA BUILDING CODE, FOR USE WITHIN & OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- SITE WIND PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A SITE-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE USING ALLOWABLE STRESS DESIGN METHOD.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE-SPECIFIC DOCUMENTS AND APPLY FOR ONE-TIME MIAMI-DADE NOA FOR USE IN CONJUNCTION WITH THIS APPROVAL.
- PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS (ASD) - REF "REACTION SCHEDULE".
- ALL ALUMINUM EXTRUSIONS SHALL BE 6061-T6 ALLOY & TEMPER, UNLESS NOTED OTHERWISE. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS REQUIREMENTS, USING FILLER ALLOYS 4043, 4047, 5183, 5356, OR 5556.

- STANDS SHALL BE INSTALLED WITH MINIMUM CLEAR HEIGHT AS SPECIFIED IN THE ABOVE-NOTED BUILDING CODE. "STAND HEIGHT" AS USED HEREIN IS NOT NECESSARILY EQUIVALENT TO "STAND CLEAR HEIGHT" AS SPECIFIED IN THE BLDG CODE.
- VIBRATION ISOLATOR PADS SHALL BE PROVIDED BY CONTRACTOR BETWEEN UNITS & STAND.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT FASTENING AS SHOWN HEREIN WILL NOT VOID THE EQUIPMENT MANUFACTURER'S WARRANTY, ESPECIALLY WHERE UNITS ARE INSTALLED WITH OVERHANG PAST RAIL (SEE TIE-DOWN DETAILS).
- ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI.
- PLASTIC COMPONENTS USED WITHIN THE HVHZ MUST MEET ALL APPLICABLE FIRE/SMOKE/UV PERFORMANCE REQUIREMENTS AS SET FORTH IN THE ABOVE-NOTED BUILDING CODE.
- ANY STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED AS PRESCRIBED IN THE ABOVE-NOTED BUILDING CODE.

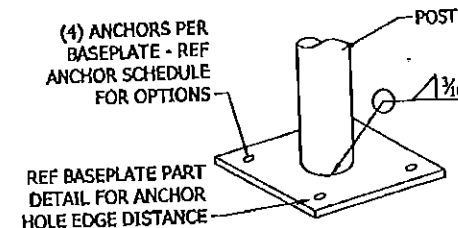


2 STAND ASSEMBLY:
POST, CROSSBAR, & RAIL CONN
SCALE: N.T.S. ISOMETRIC

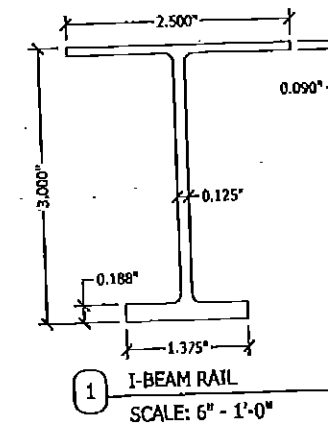
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **15-0205.01**

Expiration Date **05/15/2019**

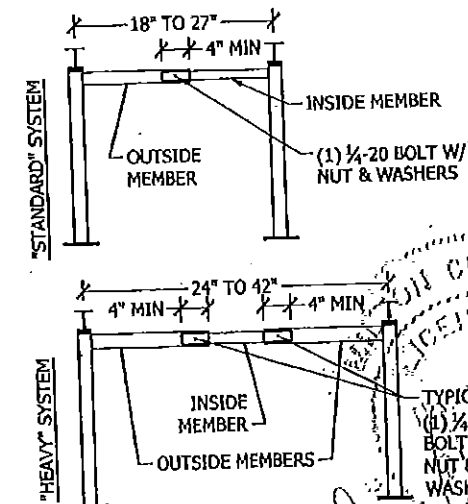
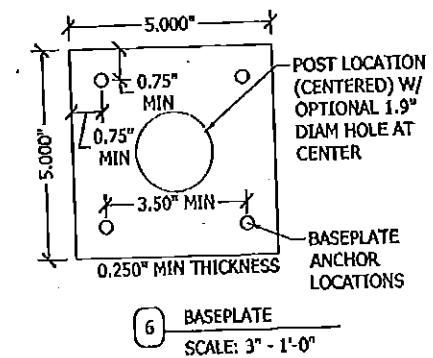
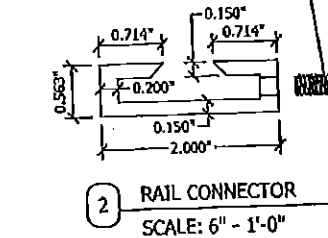
By **Miami-Dade Product Control**



3 STAND ASSEMBLY:
POST & BASEPLATE
SCALE: N.T.S. ISOMETRIC



1/4-20 SET SCREW TO HOLD RAIL IN POSITION AFTER INSTALLATION (ANY HEAD STYLE: HEX, THUMB, ETC.)



4 CROSSBAR CONFIGS
SCALE: 1/2" = 1'-0" TYP FRAME ELEVATION

MILTON CUBAS, P. E., INC.
CONSULTING ENGINEERS P.E. # 51902
C.A. # 27257 S.I. # 699901
1302 NE 125 ST
NORTH MIAMI, FLORIDA 33161
PHONE: (305) 891-4174 FAX (305) 891-4175
E-MAIL: miltcubas@mcia.com
Web Site: www.miltcubas.com



FEBRUARY 19 2015
MILTON CUBAS, P. E., INC.
FL P.E. # 51902 C.A. # 27257

DATE	DESCRIPTION	BY

ALUMINUM STANDS FOR
ROOFTOP EQUIPMENT
(ROUND POSTS)
MIAMI-DADE NOA

APPROVAL

F & L ALUMINUM
PARTS, Inc
1720 NW 22 CT, UNIT 3
POMPANO BEACH, FL 33069

DRAWING NUMBER
FNL13001

SHEET

1 OF 3

DESIGN SCHEDULE

"STANDARD" SYSTEM	TOTAL FRONT AREA	MAX UNIT HEIGHT	MAX STAND HEIGHT	2 FRAMES		3 FRAMES		4 FRAMES		5 FRAMES		6 FRAMES		7 FRAMES		8 FRAMES		MAX TOP AREA
				LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	
				250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
4 ft ²	24"	18"	24"	240 psf	116 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	8.92 FT ²
		24"	30"	195 psf	94 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
		30"	30"	206 psf	100 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
6 ft ²	28"	18"	24"	160 psf	77 psf	240 psf	116 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	11.15 FT ²
		24"	30"	130 psf	63 psf	195 psf	94 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
		30"	30"	155 psf	75 psf	232 psf	112 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
8 ft ²	32"	18"	24"	120 psf	58 psf	180 psf	87 psf	240 psf	116 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	13.38 FT ²
		24"	30"	98 psf	47 psf	146 psf	71 psf	195 psf	94 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
		30"	30"	124 psf	60 psf	177 psf	86 psf	221 psf	107 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
10 ft ²	36"	18"	24"	96 psf	46 psf	144 psf	70 psf	192 psf	93 psf	240 psf	116 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	14.86 FT ²
		24"	30"	78 psf	38 psf	117 psf	57 psf	156 psf	76 psf	195 psf	94 psf	234 psf	113 psf	250 psf	121 psf	250 psf	121 psf	
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12 ft ²	36"	18"	24"	80 psf	39 psf	120 psf	58 psf	160 psf	77 psf	200 psf	97 psf	240 psf	116 psf	250 psf	121 psf	250 psf	121 psf	17.83 FT ²
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		24"	30"	31 psf	15 psf	47 psf	23 psf	62 psf	30 psf	78 psf	38 psf	94 psf	45 psf	109 psf	53 psf	125 psf	60 psf	
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		24"	30"	26 psf	13 psf	39 psf	19 psf	52 psf	25 psf	65 psf	31 psf	78 psf	38 psf	91 psf	44 psf	104 psf	50 psf	
		30"	30"															

"HEAVY" SYSTEM	TOTAL FRONT AREA	MAX UNIT HEIGHT	MAX STAND HEIGHT	2 FRAMES		3 FRAMES		4 FRAMES		5 FRAMES		6 FRAMES		7 FRAMES		8 FRAMES		MAX TOP AREA
				LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	LATERAL	UPLIFT	
				250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
4 ft ²	24"	18"	24"	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	11.42 FT ²
		24"	30"	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
		30"	30"	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
6 ft ²	28"	18"	24"	204 psf	99 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	14.27 FT ²
		24"	30"	167 psf	81 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
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8 ft ²	32"	18"	24"	153 psf	74 psf	229 psf	111 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	17.13 FT ²
		24"	30"	125 psf	61 psf	188 psf	91 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	
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10 ft ²	36"	18"	24"	122 psf	59 psf	184 psf	89 psf	245 psf	118 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	19.03 FT ²
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12 ft ²	36"	18"	24"	102 psf	49 psf	153 psf	74 psf	204 psf	99 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	250 psf	121 psf	22.81 FT ²
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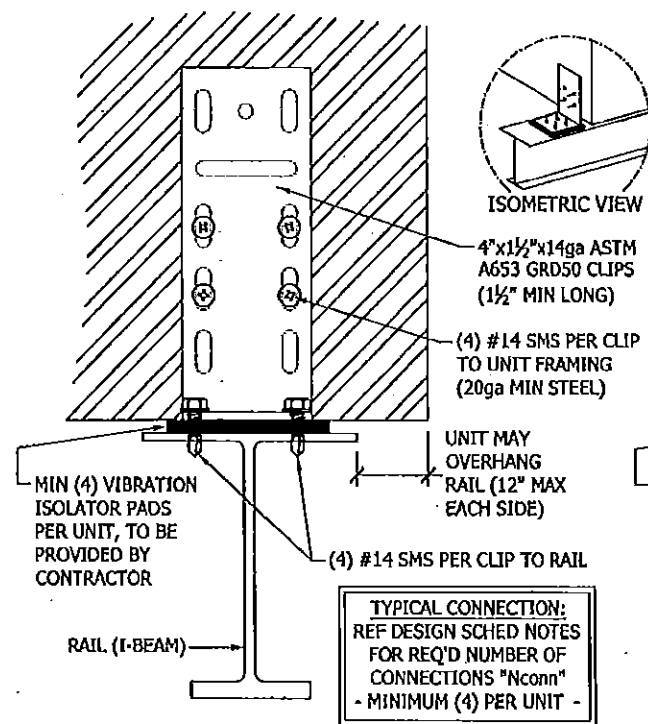
DESIGN SCHEDULE NOTES

- DESIGN SCHEDULE GIVES MAXIMUM ALLOWABLE LATERAL & UPLIFT WIND LOADS FOR EACH COMBINATION OF TOTAL UNIT FRONTAL AREA, TOP AREA, STAND HEIGHT, AND NUMBER OF POST FRAMES PER STAND.
- "TOTAL FRONT AREA" IS TOTAL FRONTAL AREA OF UNIT FACE PARALLEL TO I-BEAM RAIL (= TOTAL OF UNIT HEIGHT x UNIT WIDTH FOR ALL UNITS ON SINGLE STAND), AS DEPICTED HEREIN.
- "MAX UNIT HEIGHT" GIVEN IN SCHEDULE SHALL NOT BE EXCEEDED.
- "STAND HEIGHT" IS AS DEPICTED HEREIN.
- "FRAMES" HERE DENOTES ASSEMBLAGE OF 2 POSTS WITH A CROSSBAR.
- "MAX TOP AREA" IS TOTAL TOP AREA OF ALL UNITS ON A SINGLE STAND.

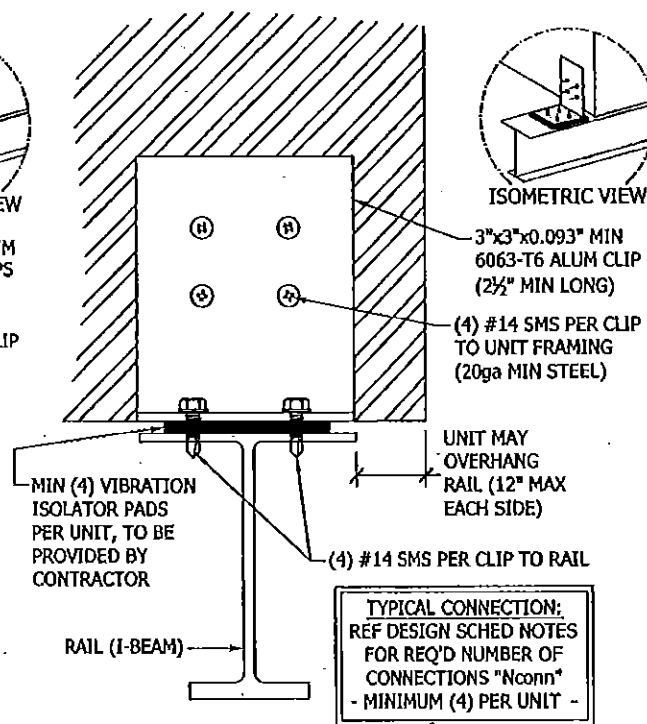
- EACH UNIT SHALL HAVE A MAXIMUM WEIGHT OF 450 LBS.
- SPACING BETWEEN UNITS MAY VARY (UNLIMITED).
- REFERENCE ANCHOR SCHEDULE FOR ALLOWABLE ANCHORS AND INSTALLATION CRITERIA.
- UNITS SHALL BE ATTACHED TO I-BEAMS PER "UNIT CONNECTION" DETAILS. NUMBER OF CONNECTIONS "Nconn" SHALL BE AS FOLLOWS:
TOTAL AREA < 20 SQ FT:
Nconn = NUMBER OF FRAMES + 1
TOTAL AREA 20 SQ FT OR MORE:
Nconn = NUMBER OF FRAMES + 2
NOTE: WHERE MORE THAN (4) CLIPPED UNIT CONNECTIONS (DTL 4/3, 5/3) ARE REQUIRED PER UNIT, ADDITIONAL CONNECTIONS SHALL BE STRAPS (DTL 6/3) OR DIRECT (DTL 7/3).

REACTION SCHEDULE

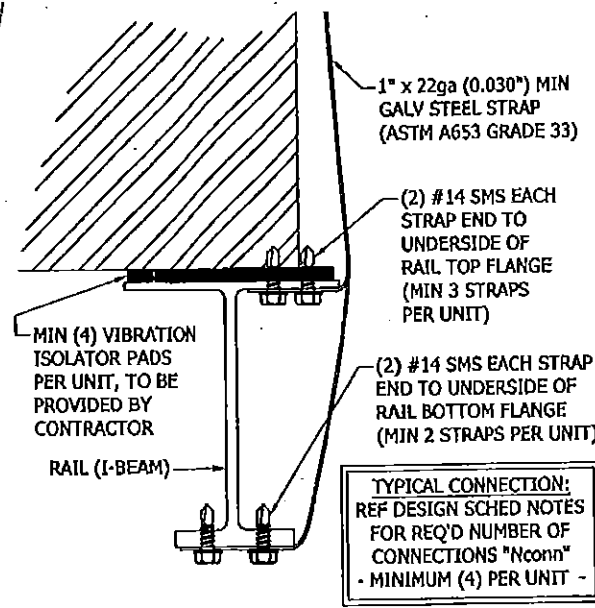
STAND HEIGHT	"STANDARD" SYSTEM			"HEAVY" SYSTEM		
	REACTION AT BASE Rx	REACTION AT BASE Ry	REACTION AT BASE M _{base}	REACTION AT BASE Rx	REACTION AT BASE Ry	REACTION AT BASE M _{base}
18"	309 LB	528 LB	3.3 K-IN	394 LB	658 LB	4.2 K-IN
24"	240 LB	531 LB	3.3 K-IN	306 LB	611 LB	4.2 K-IN
30"	195 LB	496 LB	3.3 K-IN	251 LB	618 LB	4.2 K-IN



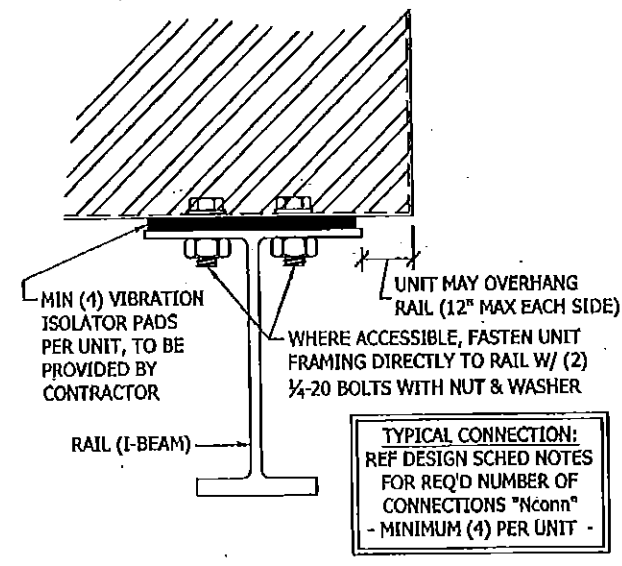
4 CLIPPED UNIT CONNECTION
3 SCALE: 1:2 VERT SECTION



5 CLIPPED UNIT CONNECTION
3 SCALE: 1:2 VERT SECTION



6 STRAPPED UNIT CONNECTION
3 SCALE: 1:2 VERT SECTION



7 DIRECT UNIT CONNECTION
3 SCALE: 6\"/>

ANCHOR SCHEDULE:

TO CONCRETE (MIN 2,000 PSI)

- A. 3/8\"/>

TO WOOD HOST STRUCTURE

- B. 3/8\"/>

TO STEEL (MIN 1/4\"/>

- C. 3/8-16 SELF-THREADING METAL SCREWS (SAE GRADE 5) WITH 1\"/>

ANCHOR NOTES:

1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS, & LOCATED PER BASEPLATE COMPONENT DETAIL(S).
2. ENSURE MINIMUM EMBEDMENT, EDGE DISTANCE, & SPACING FOR ALL ANCHORS ARE IN ACCORDANCE WITH ANCHOR SCHEDULE.
3. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES SHEATHING, UNDERLAYMENT, INSULATION, AND OTHER ROOFING MATERIALS.
4. MINIMUM 3/4\"/>
5. WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" WITH G=0.55 OR GREATER SPECIFIC GRAVITY (≈ DENSITY).
6. WHERE HOST STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD (U.N.O.).
7. SELF-TAPPING OR SELF-THREADING METAL SCREWS SHALL BE INSTALLED WITH FULL THREAD ENGAGEMENT INTO METAL HOST STRUCTURE AND MAY HAVE A FLAT HEAD, PAN HEAD, TRUSS HEAD, OR OTHER HEAD STYLES.
8. FASTENERS THAT INCORPORATE MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2\"/>

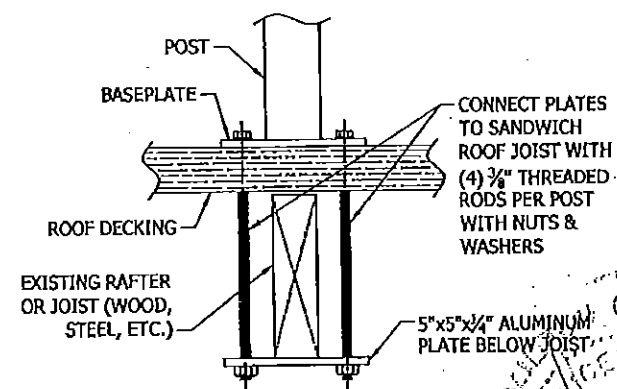
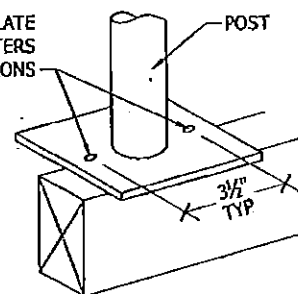
ALTERNATE: (2) ANCHORS PER BASEPLATE FOR INSTALLATION TO WOOD RAFTERS - REF ANCHOR SCHED FOR OPTIONS

THIS INSTALLATION OPTION SHALL BE LIMITED TO THE FOLLOWING:

- 12 SQ FT MAX TOTAL AREA
- (3) FRAMES MIN
- 24\"/>
- MAX ALLOWABLE DESIGN PRESSURES:
 - "STANDARD" SYSTEM : 106.4 PSF LATERAL / 51.5 PSF UPLIFT
 - "HEAVY" SYSTEM : 108.0 PSF LATERAL / 52.2 PSF UPLIFT

8 ALT: DIRECT RAFTER/JOIST BASEPLATE ANCHORAGE

3 SCALE: N.T.S. ISOMETRIC



9 ALT: SUB-RAFTER/SUB-JOIST BASEPLATE ANCHORAGE

3 SCALE: N.T.S. VERT SECTION

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. **15-0205.01**

Expiration Date **05/15/2019**

By *[Signature]*
Miami-Dade Product Control

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Web site: www.miltoncubas.com



FEBRUARY 19 2015
MILTON CUBAS, P.E., INC.
FL P.E. #51902 C.A. # 27267

DATE	DESCRIPTION	BY
12-10-10		
12-10-10		
12-10-10		
12-10-10		

ALUMINUM STANDS FOR
ROOFTOP EQUIPMENT
(ROUND POSTS)
MIAMI-DADE NOA

F & L ALUMINUM
PARTS, Inc
1720 NW 22 CT, UNIT 3
POMPANO BEACH, FL 33069

DRAWING NUMBER
FNL.13001

SHEET

3 OF 3